

OUS DOCKET

L.M. BUCHANAN

APR 2 2 2002

From the INTERNATIONAL SEARCHING AUTHORITY

FFICE OF INTELLECTUAL
PROPERTY COUNSE NOTIFICATION OF TRANSMITTAL OF OFFICE OFFICE OF INTELLECTUAL PROPERTY 3M INNOVATIVE PROPERTIES TO MATERNATIONAL SEARCH REPORT COUNSEL OR THE DECLARATION

Attn. Allen, Gregory D. Post Office Box 33427

Saint Paul, MN 55133-3427 UNITED STATES OF AMERICA

AffR 2 2 2002

(PCT Rule 44.1)

REFERRED TO

Date of mailing

(day/month/year)

22/04/2002

Applicant's or agent's file reference

55955W0004

FOR FURTHER ACTION

See paragraphs 1 and 4 below

International application No.

PCT/US 01/31178

International filing date (day/month/year)

27/09/2001

Applicant

3M INNOVATIVE PROPERTIES COMPANY

1. X	The appl	lcant is hereby n	otifled that the International Search Rep	ort has been established and is transmitted herewith.			
	Filing of The appl	ling of amendments and statement under Article 19: ne applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):					
•	When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the recompanying sheet.						
	Where?	Directly to the	International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35	CITE ART TO U.S.P.T.O.?			
	For more detailed instructions, see the notes on the accompanying sheet.						
2.	The app Article 1	licant Is hereby r 7(2)(a) to that ef	notified that no International Search Refect is transmitted herewith.	port will be established and that the declaration under			
			•.				

With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

Further action(s): The applicant is reminded of the following:

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and malling address of the International Searching Authority

European Patent Office, P.B. 5818 Patentiaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Véronique Baillou

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- Where originally there were 15 claims and after amendment of all claims there are 11]:
 Claims 1 to 15 replaced by amended claims 1 to 11.
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

it must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.



PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.			
55955W0004	ACTION	<u> </u>		
International application No.	international filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/US 01/31178	27/09/2001	28/09/2000		
Applicant				
3M INNOVATIVE PROPERTIES	COMPANY			
This International Search Report has bee according to Article 18. A copy is being tr	n prepared by this International Searching Aut ansmitted to the International Bureau.	hority and is transmitted to the applicant		
This International Search Report consists It is also accompanied by	of a total of sheets. a copy of each prior art document cited in this	report.		
Basis of the report				
With regard to the language, the language in which it was filed, un	International search was carried out on the balless otherwise indicated under this Item.	sis of the international application in the		
the international search v Authority (Rule 23.1(b)).	was carried out on the basis of a translation of t	the international application furnished to this		
b. With regard to any nucleotide at was carried out on the basis of the	nd/or amino acid sequence disclosed in the in ne seguence listing :	nternational application, the international search		
	onal application in written form.			
filed together with the int	ernational application in computer readable for	m.		
. —	o this Authority in written form.			
	o this Authority in computer readble form.			
the statement that the su international application	bsequently furnished written sequence listing of as filed has been furnished.	does not go beyond the disclosure in the		
the statement that the in furnished	formation recorded in computer readable form	is identical to the written sequence listing has been		
2. Certain claims were fo	und unsearchable (See Box I).			
3. Unity of invention is la				
4. With regard to the title,				
l	submitted by the applicant.			
l <u></u>	ished by this Authority to read as follows:	WEREYORG HOD WAYING THE CAME		
CERAMIC OXIDE PRE-FOR AND DISC BRAKES	MS, METAL MATRIX COMPOSITES	, METHODS FOR MAKING THE SAME		
		·		
5. With regard to the abstract,	submitted by the applicant.			
the text has been estable	lished, according to Rule 38.2(b), by this Author he date of mailing of this International search ru	ority as it appears in Box III. The applicant may, eport, submit comments to this Authority.		
6. The figure of the drawings to be pu	blished with the abstract is Figure No.	1		
X as suggested by the ap	plicant.	None of the figures.		
	ailed to suggest a figure.			
because this figure bett	er characterizes the invention.			

INTERNATIONAL SEARCH REPORT

ernational Application No PCT/US 01/31178

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C22C1/10 C04B41/88
B22D19/14

C04B38/00

F16D55/226

F16D65/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\label{lower by classification system followed by classification symbols)} IPC~7~B22D~C04B$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 199 481 A (CORVIN JOHN M ET AL) 6 April 1993 (1993-04-06) cited in the application	1-11, 14-67, 70-72, 75-78, 81-84, 87-90, 93-95, 98,99, 102,103,
	claims 15,17,19 column 11, line 38 -column 13, line 41 column 17, line 3 - line 26 figures 6-8/	106,107

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 "T" later document published after the international filing date or priority date and not in conflict with the application but cifed to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
12 April 2002	22/04/2002
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Rosenberger, J

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INTENATIONAL SEARCH REPORT

PCT/US 01/31178

Category °	tion) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
(US 4 468 272 A (DONOMOTO TADASHI ET AL) 28 August 1984 (1984-08-28)	1-4, 6-11, 13-21, 24-26, 40-67, 70-72, 75-78, 81-84, 87-90
		27-39, 93-95, 98,99, 102,103,
Ą	column 6, line 64 -column 7, line 25 US 5 119 864 A (KENNEDY CHRISTOPHER R ET AL) 9 June 1992 (1992-06-09) example 2	1-109
A	US 4 705 093 A (OGINO KINJI) 10 November 1987 (1987-11-10) cited in the application claims; figures	1-109

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INTERNATIONAL SEARCH REPORT

nation on patent family members

PCT/US 01/31178

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
US 5199481 A	<u> </u>	US US CA DE DE DE EP EP	4932099 A 5172746 A 2000770 A1 68920263 D1 68920263 T2 68920267 D1 68920267 T2 0364963 A1 0365978 A1	12-06-1990 22-12-1992 17-04-1990 09-02-1995 03-08-1995 09-02-1995 03-08-1995 25-04-1990 02-05-1990
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US 5119864 <i>F</i>	09-06-1992	US AT AU CA DE DE EP JP	5007474 A 116582 T 656322 B2 7878991 A 2081554 A1 69106504 D1 69106504 T2 0527901 A1 3022925 B2	16-04-1991 15-01-1995 02-02-1995 27-11-1991 10-11-1991 16-02-1995 11-05-1995 24-02-1993 21-03-2000
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		IL JP JP KR MX NO NZ PH	91721 A 2240226 A 2905523 B2 9708038 B1 173265 B 175850 B 231075 A 26801 A	27-02-1994 25-09-1990 14-06-1999 20-05-1997 14-02-1994 12-09-1994 25-09-1991 13-10-1992
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